

**85th ANNUAL ILLINOIS POTABLE WATER SUPPLY
OPERATORS ASSOCIATION CONFERENCE**

September 14 - 16, 2016

Co-Sponsored by the Illinois Environmental Protection Agency

REGISTRATION –CROWNE PLAZA LOBBY 8 am – 5 pm

EXHIBIT AREA OPENS AT 10:00 a.m.

VISIT WITH VENDORS ALL DAY WEDNESDAY

**TO RECEIVE YOUR CASH BOX ENTRY GIVEAWAY AND PURCHASE YOUR RAFFLE ENTRY
RAFFLE PRIZE AWARDED DURING MEET AND MINGLE WEDNESDAY AT 6:00 P.M.**

SPECIAL CONCURRENT OPERATOR CERTIFICATION SESSION

WEDNESDAY MORNING & AFTERNOON, September 14, 2016 – Plaza A

OPERATOR CERTIFICATION EXAMINATION GIVEN THURSDAY MORNING at 8:00 a.m. – Plaza A

- 8:00 a.m. **OPERATOR EXAMINATION REVIEW SESSION FOR C & D -- Drew Hoelscher, SIU-ERTC Water Program Director,**
to Review of treatment and distribution skills needed for operators seeking to achieve a Class C or D Certificate of
12:00 p.m. Competency as a Water Supply Operator.
- 10:00 a.m. **BREAK EXHIBIT AREA OPENS**
- 1:00 p.m. **OPERATOR EXAMINATION REVIEW SESSION FOR A & B -- Marty Reynolds, SIU-ERTC Water Program Instructor,**
to Review of treatment and distribution skills needed for operators seeking to achieve a Class A or B Certificate of
4:00 p.m. Competency as a Water Supply Operator.
**IEPA offers an exam session for anyone with an IEPA Admission Letter Thursday morning, September 15, 2016.
Obtain and bring a Letter of Admission from Illinois EPA and a valid photo ID. (Available at www.ipwsoa.com)**

WEDNESDAY, September 14, 2016 REGULATORY SESSION – PLAZA IJ

- 9:00 a.m. **DRINKING WATER PROGRAM INFORMATION & ISSUES – Dave McMillan, DPWS Division Manager, Illinois EPA,**
*Information will be provided on updates to current requirements and procedures, including permits, tracking, sampling,
reporting and operator certification.*
- 10:30 a.m. **WATER AND WASTEWATER OPERATOR RESOURCES – STEVE WILSON, ILLINOIS STATE WATER SURVEY -**
*WaterOperator.org, formally SmallWaterSupply.org, is an online resource for operators nationwide. It provides links to over
15,000 documents from about 800 state and federal agencies, technical assistance providers, operator associations, and
trainers. It lists over 12,000 events annually on their national calendar, so all training is in one place.*
- 11:15 a.m. **REVISED TOTAL COLIFORM RULE - Andrea Rhodes, Illinois EPA – Andrea will provide an Overview of the changes**
to the Total Coliform Rule. What have we learned so far.
- 12:00 Noon **Adjournment for lunch – on your own. VISIT THE EXHIBIT AREA – PURCHASE YOUR RAFFLE ENTRY and GET**
YOUR CASH BOX ENTRY FOR 3:15 P.M. AND 5:15 P.M. DRAWING

WEDNESDAY, September 14, 2016 -- TECHNICAL SESSION–PLAZA IJ

- 1:30 p.m. **WELCOME TO THE 85th ANNUAL CONFERENCE-- Dale Biggerstaff, IPWSOA President – Business Meeting**
- 1:45 p.m. **KEYNOTE ADDRESS – State Representative Brandon Phelps, 118th District, House Chairman of Public Utilities
Committee.**
- 2:15 p.m. **PANEL - "WHO DO I ANSWER TO?" – IEPA, IDPH, IEMA – Participate in a roundtable discussion on the application**
of agency regulations for water treatment facilities. Answer questions and respond to operator concerns.
- 3:15 p.m. **BREAK – VISIT THE EXHIBIT AREA –CASH BOX ENTRY GIVEAWAY AND PURCHASE YOUR RAFFLE ENTRY**
- 3:30 p.m. **PURGING RECORDS – Robert Boots, Deputy Director - Illinois State Archives – Overview of the records**
*management processes as defined within the context of the Illinois Local Records Act. The emphasis is on establishing and
stabilizing records management processes.*
- 4:00 p.m. **TOP TEN ERRORS OPERATORS MAKE - Andrea Rhodes, IEPA – Discussion of the most common errors water**
operators make and how they can resolve them.
- 5:00 p.m. **ADJOURN to MEET & MINGLE– Last chance to purchase your Raffle Entry. Cash Box entry given out at 5:15. Visit**
vendors, enjoy a light snack and refreshing beverage. Winning Raffle Entry will be announced at 6:00 p.m.

TECHNICAL SESSION, THURSDAY MORNING, September 15, 2016 PLAZA IJ

EXHIBIT AREA OPENS AT 8:00 a.m.

**REGISTER WITH VENDORS ALL DAY THURSDAY TO BE ELIGIBLE FOR THE
CASH BOX DRAWING TO BE ANNOUNCED AT 10:00 a.m. and 2:45 p.m. BREAK**

- 8:30 a.m. **MECHANICAL SEALS – Bill Birk, Pioneer Industrial – Introduction to fluid sealing devices for pumps and valves.**
- 9:00 a.m. **DOING A LOT WITH A LITTLE - Don Grimm, Village of Hamel – How to cope with Public Works in a small town**
with little or no resources to get the job done.
- 9:30 a.m. **ALGAE AND TOXINS IN SURFACE WATER -- Melissa Olenick, Central Lake County JAWA - Review current state**
*of nitrate levels in Illinois, common treatment options, new biological fixed bed nitrate removal option, review case study at
Taylorville, Illinois and plans for full scale permitting and design.*
- 10:00 a.m. **EXHIBIT AREA BREAK - CASH BOX ENTRY GIVEAWAY**
- 10:20 a.m. **ORGANIC COLOR REMOVAL FROM GROUNDWATER – John Mindrup, Village of Alhambra - The long journey to find**
*practical treatment options to remove color from ground water. The nanofiltration option we elected to install and operation of
equipment and procedures to date.*
- 11:05 a.m. **NITRATE REMOVAL PILOT PROJECT – Jamie Headen, Benton and Associates - While cyanotoxins are not**
*currently regulated in drinking water, having a management plan in place to deal with potential harmful algal blooms is key to
being proactive rather than reactive. This presentation will focus on better understanding HABs and EPA Health Advisories
currently in place, and five steps to creating a management plan and successfully implementing it in water treatment.*
- 12:00 p.m. **EXHIBIT AREA -- JOIN THE EXHIBITORS FOR LUNCH**

CONCURRENT PRODUCTS & SERVICES SESSION THURSDAY MORNING, September 15, 2016 - PLAZA B

- 8:30 a.m. **EVALUATING WATER STABILITY:** -- *Don Anderson, ERTC/SIUE Retired,*– A review of products, services, and information related to evaluating if finished water will be corrosive, stable, or scale forming in the distribution system.
- 9:00 a.m. **ADVANTAGES OF CLOUD-BASED SCADA** - *David Mundie, High Tide Technologies* - With the explosion of public wireless networks, the use of Cloud based SCADA has become cost effective for even the smallest utility. This presentation will highlight how Cloud based SCADA works and its advantages.
- 9:30 a.m. **FILTER MAINTENANCE ASSET MANAGEMENT-** *Chadd Matthewson, Utility Services* - Maintain the filter asset to prevent run-to-failure emergencies.
- 10:00 a.m. **EXHIBIT AREA BREAK –CASH BOX ENTRY GIVEAWAY**
- 10:20 a.m. **TRACING WIRE –** *Mike Moore, Copperhead Wire* – All across North America, tracing wire is being installed incorrectly because of weak specifications and improper practices. This talk will point you in the right direction of what to do and what is proper.
- 10:50 a.m. **VAL-MATIC VALVES –** *Aaron Kielar, Val-Matic* – Overview of the various AWWA compliant butterfly, plug, ball, air, and check valves.
- 11:20 a.m. **PUMP MAINTENANCE –** *Austin Johnson, Layne* – Preventative maintenance of water systems.
- 12:00 p.m. **LUNCH EXHIBIT AREA - JOIN THE EXHIBITORS FOR LUNCH**

TECHNICAL SESSION THURSDAY AFTERNOON September 15, 2016 -- PLAZA I

- 1:00 p.m. **TREATMENT CHALLENGES AFTER HEAVY RAIN –** *Don Giger, City of Decatur, Illinois* – This presentation will focus on treatment challenges after heavy rainfalls at a surface supply water treatment plant.
- 1:30 p.m. **TRACKING BACKFLOW PREVENTERS –** *Tom Staroske, Aqua Backflow,* - To have an effective, active, and compliant program, several tasks must be performed on a regular basis. We will touch on all aspects of a good program, but will focus on the different types of programs and tracking methods to bring your program into the 21st century.
- 2: 00 p.m. **PHOSPHATES IN DRINKING WATER –***Shawn Hire, Brenntag, Mid South* – Determining advantages and application of Phosphates in Drinking Water.
- 2:45 p.m. **EXHIBIT AREA BREAK – CASH BOX ENTRY GIVEAWAY**
- 3:00 p.m. **HIGH AND LOW SERVICE PUMP STATIONS, PAST AND PRESENT–** *Todd LaFountain, CWLP, Ted LaBelle, CMT* – In 2014 the City of Springfield replaced its 1930's-era low and high service pump stations with current design, technology and equipment. The original high service pump stations had been updated during the 70-year period with technologies for variable flow pumps and remote operation. The new pump stations incorporate all new equipment, variable flow control for the pumps, SCADA controlled operation and improved hydraulics.
- 3:45 p.m. **WATER QUALITY 101 –** *Rachel Bretz, Illinois American Water, Water Quality Supervisor* – The Basics of Water Quality -- What every operator needs to know about meeting water quality requirements and customer expectations.
- 4:15 p.m. **REMOTE TICKET ENTRY AND POLYGONS –** *Brian MacKenzie, Damage Prevention Manager, J.U.L.I.E* - This topic will focus on remote ticket entry and the benefits of converting from grids to polygons.
- 5:00 p.m. **Adjourn to prepare for the Operator of the Year Celebration**

CONCURRENT NUTS & BOLTS SESSION THURSDAY AFTERNOON, September 15, 2016 -- PLAZA A

- 1:00 p.m. **LOCATING WATER AND SEWER LINES –** *Gordon Eden, EDENBROS LLC*– Introduction to pipe and cable locations and equipment.
- 2:45 p.m. **EXHIBIT AREA BREAK**
- 3:00 p.m. **LOCATING WATER AND SEWER LINES –** *Gordon Eden, EDENBROS, LLC* – Introduction to pipe and cable locations and equipment.
- 5:00 p.m. **Adjourn to prepare for the Operator of the Year Celebration**

CONCURRENT PRODUCTS & SERVICES SESSION, THURSDAY AFTERNOON, September 15, 2016 -- PLAZA B

- 1:00 p.m. **NEW METER READING TECHNOLOGIES –** *Matt Carls, Midwest Meter* – From client-based software to web-based software, Hosting and Cellular Smart Meters and encoded registers, utilities now have more information.
- 2: 00 p.m. **WELL TREATMENT –***Todd Thomas, V.P., Brotcke Well & Pump,* – Overview of well condition assessment and methods of treating wells to recover capacity.
- 2:45 p.m. **EXHIBIT AREA BREAK**
- 3:00 p.m. **ENERGY SAVINGS WITH ADJUSTABLE SPEED DRIVES –** *Douglas Reichardt, Toshiba International* – How motors and adjustable speed drives work. Discuss new energy requirements and how this affects motor and ASD applications.
- 4:30 p.m. **Adjourn to prepare for the Operator of the Year Celebration**

THURSDAY EVENING

- 6:30 p.m. **85th ANNUAL CONFERENCE OPERATOR OF THE YEAR AWARDS CELEBRATION - CROWNE PLAZA EMERALD/DIAMOND BALLROOMS** – The Operator of the Year Celebration will feature a special evening of fellowship and fun. Honor our fellow operators who consistently provide safe drinking water to Illinois! The Celebration will be followed by "Let's Make A Deal". Just like the popular TV game show. There will be a \$1000.00 in prizes to be given out!

FRIDAY, September 16, 2016 -- EMERALD/DIAMOND BALLROOMS

- 7:00 a.m. **ANNUAL BREAKFAST -- ALL CONFERENCE PARTICIPANTS ARE INVITED --** Tickets available Thursday at noon.
- 9:00 a.m. **WATER MAIN REPLACEMENT PROBLEMS –** *Ted LaBelle, CMT* – An Illinois water supply employs a contractor to replace a half-mile of severely corroded cast iron water main. The new main is put in the ground and backfilled and then the unexpected happens.
- 9:30 a.m. **LEGAL ISSUES FACING WATER SUPPLIES –** *Michael L. Antoline, Attorney* – Overview of new legal issues facing water supplies.
- 10:00 a.m. **LEAK DETECTION SURVEY –** *Randy Miller, City of Decatur, Illinois, Water Services Manager* – How a multi-year,

- Proactive leak detection survey assisted the City of Decatur recover over \$1.5 million in lost water production and revenue.
- 10:30 a.m. **OIL SPILL NEAR HIGHLAND, ILLINOIS – Mike Buss, Supervisor of Water Treatment, Highland, Illinois** – A leak in a crude oil pipeline traveled to the lake, source for the PWS, and caused concern for the Highland water supply.
- 11:00 a.m. **CHLORINE AND ALTERNATIVE DISINFECTANTS – Bill Brown, Crawford, Murphy and Tilly, Senior Project Manager** - The many choices for chlorine storage and feeding will be discussed. The Chlorine Breakpoint curve will be analyzed and options for alternative disinfectants will be presented.
- 12:00 p.m. **ATTENDANCE REPORT AND ATTENDANCE PRIZE DRAWING – Dale Biggerstaff, President, 2016**

OVER 15 RENEWAL TRAINING CREDITS (RTCs) CAN BE EARNED FOR FULL CONFERENCE PARTICIPATION!

- Wednesday a.m. = 3.0 RTC units Wednesday p.m. = 3.0 RTCs (Technical or Operator Review Sessions)
 Thursday a.m. = 3.1 RTCs (Main, Nuts & Bolts, or Products Sessions)
 Thursday p.m. = 3.5 RTCs (Main, Nuts & Bolts, or Products Sessions)
 Friday = 3.0 RTCs

**-- SPOUSE PROGRAM --
 Marilyn Vaughn, Chairwoman**

Welcome to the 85th Annual Fall Conference – Join us to meet new people, and have fun! There will be first-timers as well as some people who have participated for many years. We are always glad to welcome new faces!

WEDNESDAY, September 14, 2016 – Crowne Plaza Hotel -- Meet by the Front Doors closest to Conference Registration

- 1:30 p.m. **DEPART FOR THE NEARBY SPRINGFIELD ART ASSOCIATION --** Return to the Art Association to learn/review the basics of painting, with an opportunity to create your own masterpiece! This activity is back by popular demand. Many find this activity a relaxing stress outlet that can be continued at home.
- 4:30 p.m. **Return to Hotel for Meet 'n Mingle, Exhibit Hall**

THURSDAY, September 15, 2016



Historic Marbold Farm -- Wear comfortable clothes and shoes!

9:00 a.m. BOARD BUS Front of CROWNE PLAZA HOTEL

9:30 a.m. MARBOLD FARM, PETERSBURG -- Marbold Farmstead was the central hub of the Marbold family farm holdings -- over 4,000 acres, with several barns, dairy operations, chicken house, smoke house, ice house, boiler house and pump house. The original house, called Elmwood, was built in 1850 by John Marbold. It was enlarged and renovated in the 1880's by H. H. Marbold. It was one of Central Illinois most famous homes in it's day. The house is in the early stages of renovation. Last year's attendees voted to visit the site now, and again in a few years, when the restoration is further along. [Marbold Farm hosts a very popular annual antique show in June of each year. Dealers offer country primitives, furniture, textiles, pottery, and Americana for sale. Period craftsmen are on site to demonstrate skills in basket weaving, hat making, spinning, quilting, rag rug weaving and other crafts. (June 25, 2016, 9 am - 3 pm)]

11:00 a.m. LUNCH AT GILLMORE'S CAFE

12:30 p.m. VISIT THE HOME OF EDGAR LEE MASTERS, AUTHOR OF "SPOON RIVER ANTHOLOGY", PETERSBURG --

Newly restored home of Edgar Lee Masters is open for tours. This is the 100th anniversary of the publication of *The Spoon River Anthology*, first published in 1816. This book of epitaphs tells an intriguing story of the many residents in the area, and is a favorite of those who have read it. Walk across the street to the quaint Rose Cottage, and shop the unique treasures available.

1:00 p.m. VISIT THE VILLAGE OF NEW SALEM -- Lincoln's New Salem State Historic Site is a reconstruction of the village where Abraham Lincoln spent his early adulthood. The six years Lincoln spent in New Salem formed a turning point in his career. Although he never owned a home in New Salem, Lincoln engaged in a variety of activities. He clerked in a store, split rails, enlisted in the Black Hawk War, served as postmaster and deputy surveyor, failed in business, and was elected to the Illinois General Assembly in 1834 and 1836, after an unsuccessful try in 1832.

3:30 p.m. Return to the Crowne Plaza Hotel for the Operator of the Year Celebration at 6:30 pm in the Emerald/Diamond Room

FRIDAY, September 16, 2016

7:00 – 8:30 a.m. Conference Breakfast – EVERYONE welcome! Tickets at the Registration Desk beginning noon Thursday.

9:00 a.m. OILS FOR HEALTH AND EVERYDAY USE-- Gretchen Biggerstaff will assist us in learning how to use oils to assist in cooking, healing and to spice up our lives..